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NPIC/TSSG/D-1083-68 16 February 1968

MEMORANDUM FOR: Chairman, Systems & Programming Working Group

THROUGH : Chief, Technical Services and Support Group

SUBJECT : Requested Evaluation of

IIS Program

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REFERENCE: 30 January 1968, RYN III, memo on same subject

1. In answer to the specific questions raised in Paragraph 2 of the reference memo, the following information is offered.

- a. Availability There is no known source of supply for the equipments exactly as they are described in the IIS hardware specifications. However, by minor modifications of the specifications, i.e., reducing the teletype print speed, utilizing CRT devices with smaller character capacity, deleting the upper/lower case requirements from some of the consoles, etc.; it is possible to move the equipment into the "off-the-shelf" category. The major spec requirement to overcome is the necessity of meeting the requirements of FED-STD-222, Radiation standards. There has been no apparent difficulty so far in satisfying the Agency's radiation requirements with the equipment now on board, so perhaps there will be no problem here. This still must be determined, however. DPD is currently thinking along the lines of modifying their requirements to permit the utilization of standard equipment. This, of course, would call for no R&D and thus possibly would affect the programming effort mentioned in Paragraph 1 of the reference memo.
- b. Price Supposedly the prices indicated by in their Phase II report are within the bounds of reason. However, before a definitive equipment cost statement could be made, it would be necessary to solicit prices based on the NPIC specifications from the various equipment manufacturers. Once again the current DPD thinking

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is toward the utilization of off-the-shelf equipment and thus would not appear as R&D budgetary items. The utilization of standard hardware opens up another implementation option by permitting a possible leasing arrangement to be made, thus avoiding the otherwise large hardware acquisition costs.

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- c. Adequacy of specifications The specifications per se appear to be complete and comprehensive. One of the requirements levied on was that specifications furnished in the Phase II report should be suitable for attachment to RFP's without extensive re-write or modification. It is believed that this requirement has been met. Computer hardware people within DPD are currently reviewing the specification to insure that the requirements levied in the specifications reflect DPD's actual needs.
- d. Anticipated reliability of proposed equipment The reliability requirement levied in the equipment
 specifications is expressed in terms of calculated mean
 time between failure. MTBF of 1000 hours is required
 for the Double Font Editing consoles, the Query Consoles,
 the Telegraph Send/Receive unit with Tape Punch and
 Reader, and the Data Entry console. MTBF of 500 hours
 is required for the Telegraph Send/Receive units, and
 the Telegraph Receiver units.
- e. Versatility or compatability of equipment interface with other requirements - One of the basic requirements in the design of the IIS was the flexibility to accommodate changes due to new Exploitation techniques, new collection systems, product changes, and data base expansion or revision. Target recognition and change detection systems will undoubtedly require quantitative target measures to be incorporated into the IIS data base; the IIS query capabilities will provide access to various indices and other data base references which will facilitate film handling; and rapid preparation for read out will be assisted by the HIS automated procedures. In short, the proposed structure of the data base and its modular storage characteristics should provide the adaptability required to permit ready change, expansion, and revision.
- f. Correlation with Auto-Reporting Techniques Study findings - Inasmuch as the auto-reporting techniques study is incomplete, a positive statement as to the correlation between the findings of the

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STATINTL STATINTL study and the IIS would be premature. Efforts have been made both by to insure that possible to insure that possible duplication is minimized. No additional plotting equipment is anticipated for use in the IIS so that the Graphic composition equipment, such as that produced by and investigated and his study group, would not be in conflict. The and his study group, would not be in conflict. The IIS should assist in the generation of information for use in many of NPIC's reports but no computerized printing equipment is currently scheduled under the IIS, other than some hard copy read-out devices. Of course the modular storage characteristics mentioned above would also permit the expansion of the data base to handle a fully computerized automatic reporting system if such is deemed desirable.

- 2. It might prove advantageous if members of the Systems and STATINTL Programming Staff would read the entire Phase II final report as an aid to understanding the proposed system. Of the SPS has already borrowed Volume I, Part I, System Operation and Evaluation for review. The other volumes of the report are also available for perusal.
- 3. If additional information is desired, please feel free to contact the undersigned.

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Acting Chief, Research & Development Branch, TSSG

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